

7-Methyl- α - および 7-Methyl- γ -calacorene の接触還元*

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Catalytic hydrogenation of 7-Methyl- α - and 7-Methyl- γ -calacorene

by

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Abstract

Starting from *o*-xylene, 7-methyl- α -(**2d**) and 7-methyl- γ -calacorene (**3d**) was synthesized through 3,4-dihydro-4-isopropyl-6,7-dimethyl-1(*2H*)-naphthalenone (**7**) or 3,4-dihydro-4,6,7-trimethyl-1(*2H*)-naphthalenone(**10**), respectively.

Catalytic hydrogenation of **2d** in the presence of 10% Pd-C in ethanol afforded a 98:2 mixture of *cis*-(**1d**) and *trans*-7-homocalamenene(**1d**). On the other hand, **3d** gave an 88:12 mixture of *cis*-**1d** and *trans*-**1d** by the same hydrogenation as above for **2d**. The diastereomeric ratio was determined by ¹H NMR spectrum.

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